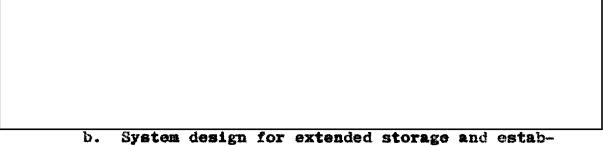
Approved For Release 2002/08/20 : CIA-RDP63-00313A000600210005-8

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NRO REVIEW COMPLETED

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17 April	1963
HEMORANDUM FOR : Deputy for Technology/OSA SUBJECT	NRO 25X
1. Reconnaissance satellite systems currently under development are designed mainly to obtain increasingly higher resolution photography and, as a result, require increasingly heavier payloads and boosters and added communications. These systems, while certainly in response to consumer needs.	
the severe international climate likely to result from an active measure-countermeasure game played in space over 2. In other words, if we rely solely on these high ly reduce our coverage and may deprive us of counternations.	NRO
ly reduce our coverage and may deprive us of coverage completely. This system will be kept on the shelf dicate the following system characteristics:	25X NRO 25X1

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- lishment of a separate payload and maintenance facility.
- There is no doubt that product quality from such a system will be seriously affected by the above considerations, particularly the launch restrictions. However, it is equally clear that, given the operating circumstances, useful coverage can be obtained. In the general environment postulated, the following assumptions can legitimately be made:
 - General coverage of the area from earlier systems will be available. This coverage may be one to three years old, but will assist in location of items of interest with relation to other, known points and in the identification of marginally resolved items.
 - b. An overt, pointing system will be available for high risk usage, for further analysis of critical items discovered.

An analysis is being made by NPIC on the intelligence available from various quality products. That is, what can be determined from "I foot" resolution, "10 foot" resolution, "100 foot" resolution, etc. It is apparent that no hard and fast rules can be drawn, and that prior information on the area is of great assistance.

Lacking for the moment the NPIC analysis, it appears that a performance roughly equivalent to early CORONA systems (30' compared to present CORONA 10') may be on the margin of providing useful product. Payload limitations and intelligence needs probably require that the system be of the search type, while current experience also indicates that stereo systems are almost mandatory. Multiple image handling techniques presently under development may well indicate redundant coverage at "low" resolution rather than single coverage at higher quality.

5. The above considerations are some rough bounds within which detailed be considered. It is recommended that some modification of it be used as a listudies to be performed by selected conext few months. These studies should analysis of alternative systems, their characteristics.	d system designs can
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